



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

David Hugh Jones

Group Art Unit: 1656

Serial No.: 10/595,954

Examiner: Unknown

Filed: 05/22/2006

For: Purification method for recombinant glucose binding protein

Attorney Docket No.: KIST 0101 PUSA

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. § 1.97(b)**

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Sir:

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While this Statement is being filed in compliance with the duty of disclosure, citation of the listed references is not to be construed as an admission that any of the references are "material" as defined under 37 C.F.R. § 1.56(b).

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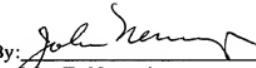
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No copies of the listed U.S. patent references or the listed U.S. patent application publication references have been included herewith pursuant to 37 C.F.R. § 1.98(a)(2). All other references have been provided as required. Consideration and entry into the record of the listed references is respectfully requested.

Respectfully submitted,  
**David Hugh Jones**

By:   
John E. Nemazi  
Reg. No. 30,876  
Attorney/Agent for Applicant

Date: July 3, 2007

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|   |  |                        |                  |
|---|--|------------------------|------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) |  | Application Number     | 10595954         |
|   |  | Filing Date            | 2006-05-22       |
|   |  | First Named Inventor   | David Hugh Jones |
|   |  | Art Unit               | 1656             |
|   |  | Examiner Name          | S. Noakes        |
|   |  | Attorney Docket Number | KIST0101PUSA     |

| U.S.PATENTS       |         |               |                        |            |   |  |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code <sup>1</sup> | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /S.M.N./          | 1       | 6232130       | B1                     | 2001-05-15 | Wolf  |  |

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#### U.S.PATENT APPLICATION PUBLICATIONS

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|-------------------|---------|--------------------|------------------------|------------------|---|--|
| /S.M.N./          | 1       | 20050095174        | A1                     | 2005-05-05       | David E. Wolf                                   |  |

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#### FOREIGN PATENT DOCUMENTS

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|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|--------------------------|
| /S.M.N./          | 1       | 2005044100                           | WO                        | A1                     | 2005-05-19       | David E. Wolf                                   |  | <input type="checkbox"/> |
| /S.M.N./          | 2       | 9109312                              | WO                        | A1                     | 1991-06-27       | Sensor Technologies, Inc.                       |  | <input type="checkbox"/> |
| /S.M.N./          | 3       | 9400602                              | WO                        | A1                     | 1994-01-06       | Sensor Technologies, Inc.                       |  | <input type="checkbox"/> |

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|----------|---|----------|----|----|------------|-----------------------------------|--------------------------|
| /S.M.N./ | 4 | 19501159 | DE | A1 | 1996-07-11 | Ehwald, Rudolf, Prof. Dr. sc.nat. | <input type="checkbox"/> |
| /S.M.N./ | 5 | 19714087 | DE | A1 | 1998-10-15 | Ehwald, Rudolf, Prof. Dr. sc.nat. | <input type="checkbox"/> |
| /S.M.N./ | 6 | 0016099  | WO | A1 | 2000-03-23 | Sensor Technologies, Inc.         | <input type="checkbox"/> |
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| /S.M.N./           | 1       | EDELMAN ET AL, Isolation and Proteolytic Cleavage of the Intact Subunit of Concanavalin, Biochemistry, Vol. 11, No. 17, 1972, pages 3233-3239   | <input type="checkbox"/> |
|                    | 2       | AGRAWAL ET AL, Concanavalin A, The Jack Bean ( <i>Canavalia ensiformis</i> ) Phytohemagglutinin, Methods in Enzymology, Vol. 28, Complex Carbohydrates Part B, Victor Ginsburg (ed.), pages 313-318, 1972, Academic Press, New York, NY                         | <input type="checkbox"/> |
|                    | 3       | AGRAWAL ET AL, Protein-Carbohydrate Interaction: VI. Isolation of Concanavalin A By Specific Adsorption on Cross-Linked Dextran Gels, BIOCHIM BIOPHYS ACTA, 1967, pages 262-271, Vol. 147, Issue 2  | <input type="checkbox"/> |
|                    | 4       | BECKER ET AL, The Molecular Structure of Concanavalin A, 1976, Concanavalin A as a Tool, Bittiger and Schnebli (ed.), Chapter 3, pages 33-54  | <input type="checkbox"/> |
| ↓                  | 5       | BEUTLER, Starch, Methods of Enzymatic Analysis, 1984, Third Edition, Volume VI, Metabolites 1: Carbohydrates, Bergmeyer (ed.), pages 2-10   | <input type="checkbox"/> |

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| /S.M.N./ | 6  | BEYER ET AL, Recording of Subcutaneous Glucose Dynamics By a Viscometric Affinity Sensor, <i>Diabetologia</i> , 2001, pages 416-423, Volume 44, Issue 4   | <input type="checkbox"/> |
|          | 7  | BOWDEN ET AL, Structure and Morphology of Protein Inclusion Bodies in <i>Escherichia Coli</i> , <i>Biotechnology</i> , Volume 9, August 1991, pages 725-730   | <input type="checkbox"/> |
|          | 8  | BOWLES ET AL, Traffic and Assembly of concanavalin A, <i>Trends in Biochemistry and Science</i> , February 1988, Vol. 13, Issue 2, pages 60-64, Elsevier Publications Cambridge   | <input type="checkbox"/> |
|          | 9  | EGGINS, <i>Biosensors: An Introduction</i> , 1996, pages 92-97 & 140-143  | <input type="checkbox"/> |
|          | 10 | EGGINS, <i>Chemical Sensors and Biosensors</i> , 2002, pages 178-182  | <input type="checkbox"/> |
|          | 11 | JONES, Folding, Activation and Protein Splicing of Recombinant concanavalin A Precursors: An Exceptional Protein to Prove Some Rules, Chapter 20, pages 70-73, <i>Perspectives on Protein Engineering &amp; Complementary Technologies</i> , Epton & Geisow (ed.), 1995 | <input type="checkbox"/> |
|          | 12 | DAWES, Storage Polymers in Prokaryotes, pages 81-122, <i>Prokaryotic Structure and Function: A New Perspective</i> , Dow, Coles and Mohan (ed.), 1992, Cambridge University Press, Cambridge  | <input type="checkbox"/> |
|          | 13 | DAWSON ET AL, Data for Biochemical Research, pages 288-289, 404-405, 417-425, 439-440 & 541-542, Third Edition, Oxford University Press, New York, 1966   | <input type="checkbox"/> |
|          | 14 | DUBOIS ET AL, Colorimetric Method for Determination of Sugars and Related Substances, <i>Analytical Chemistry</i> , Vol. 28, No. 3, March 1956, pages 350-356, American Chemical Society  | <input type="checkbox"/> |
|          | 15 | GEORGIOU ET AL, Isolating Inclusion Bodies From Bacteria, pages 48-58, Chapter 3, <i>Amyloid, Prions and Other Protein Aggregates</i> , Wetzel (ed.), <i>Methods in Enzymology</i> , Vol. 309, 1999, Academic Press   | <input type="checkbox"/> |
| ↓        | 16 | GOLDSTEIN ET AL, Agar Gel-Diffusion Studies on the Interaction on concanavalin A, a Lectin Isolated from Jack Bean, with Polysaccharides, pages 407-414, <i>Archives of Biochemistry and Biophysics</i> , Vol. 111, August 1965, Elsevier                               | <input type="checkbox"/> |

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| /S.M.N./ | 17 | GOLDSTEIN ET AL, Isolation and Chemical Properties of Lectins, pages 148-247, <i>The Lectins: Properties, Functions and Applications in Biology and Medicine</i> , 1986, Liener, Sharon & Goldstein (ed.), Academic Press  | <input type="checkbox"/> |
|          | 18 | GOLDSTEIN ET AL, Isolation, Physicochemical Characterization, and Carbohydrate-Binding Specificity of Lectins, pages 32-137, Chapter 2, <i>The Lectins: Properties, Functions and Applications in Biology and Medicine</i> , 1986, Liener, Sharon & Goldstein (ed.), Academic Press  | <input type="checkbox"/> |
|          | 19 | HENGGE-ARONIS ET AL, Identification and Molecular Analysis of <i>glgS</i> , a Novel Growth-Phase-Regulated and <i>rpoS</i> -Dependent Gene Involved in Glycogen Synthesis in <i>Escherichia coli</i> , pages 1877-1886, <i>Molecular Microbiology</i> , July 1992, Vol. 6, Issue 16, | <input type="checkbox"/> |
|          | 20 | HODGE ET AL, Determination of Reducing Sugars and Carbohydrates, pages 380-393, <i>Methods in Carbohydrate Chemistry, Volume 1: Analysis and Preparation of Sugars</i> , Whistler and Wolfrom (ed.), 1962, Academic Press, New York  | <input type="checkbox"/> |
|          | 21 | HOEDEMAEKER ET AL, Destabilization of Pea Lectin by Substitution of a Single Amino Acid in a Surface Loop, pages 1039-1046, <i>Plant Molecular Biology</i> , Vol. 22, No. 6, September 1993, Kluwer Academic Publishers, Belgium   | <input type="checkbox"/> |
|          | 22 | HORSTMANN ET AL, Isolation, Characterization and Subunit Structure of a Phytohemagglutinin from Seeds of <i>Vicia faba</i> L., pages 311-321, <i>Biochem. Physiol. Pflanzen</i> 173, 1978  | <input type="checkbox"/> |
|          | 23 | MIN ET AL, Stability and Detection of Recombinant Pre-Pro-concanavalin A after Cytoplasmic Expression in <i>Escherichia coli</i> , pages 315-318, <i>FEBS Letters</i> , Vol. 301, No. 3, 1992  | <input type="checkbox"/> |
|          | 24 | MIN ET AL, Non-Glycosylated Recombinant pro-concanavalin A is Active Without Polypeptide Cleavage, pages 1303-1307, <i>The EMBO Journal</i> , Vol. 11, No. 4, 1992, Oxford University Press  | <input type="checkbox"/> |
|          | 25 | DINCTURK ET AL, Recombinant pre-pro-concanavalin A (Jack Bean) is Stable But of Low Solubility, pages 635-640, <i>Journal of Biosciences</i> , Vol. 26, No. 5, December 1995, Nanjundiah (ed.)   | <input type="checkbox"/> |
|          | 26 | SCHULTZ, Design of Fibre-Optic Biosensors Based on Bioreceptors, pages 639-654, <i>Biosensors: Fundamentals and Applications</i> , Chapter 32, Turner, Karube and Wilson (ed.), 1987, Oxford University Press, New York  | <input type="checkbox"/> |
| ↓        | 27 | SCHULTZ ET AL, Affinity Sensor: A New Technique for Developing Implantable Sensors for Glucose and Other Metabolites, pages 245-253, <i>Diabetes Care</i> , Vol. 5, No. 3, May-June 1982   | <input type="checkbox"/> |

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| /S.M.N./ | 28 | KENNEDY ET AL, An Assessment of the Fractionation of Carbohydrates on concanavalin A-Sepharose 4B by Affinity Chromatography, pages 2041-2046, Journal of the Chemical Society[Perkin 1], Vol. 19, 1973          | <input type="checkbox"/> |
|          | 29 | KEPPLER ET AL, Glycogen, pages 11-18, Methods of Enzymatic Analysis, Volume VI, Metabolites 1: Carbohydrates, Third Edition, 1984, Bergmeyer (ed.), Weinheim, Deerfield Beach, Florida                           | <input type="checkbox"/> |
|          | 30 | LAEMMLI, Cleavage of Structural Proteins During the Assembly of the Head of Bacteriophage T4, pages 680-685, Nature, Vol. 227, No. 5259, August 1970   | <input type="checkbox"/> |
|          | 31 | LEINER, Isolation and Properties of concanavalin A, pages 17-31, Concanavalin A as a Tool, Chapter 2, Bittiger and Schnebli (ed.), 1976, John Wiley & Sons   | <input type="checkbox"/> |
|          | 32 | LLOYD, Affinity Chromatography on Immobilized concanavalin A, pages 323-331, Concanavalin A as a Tool, Chapter 36, Bittiger and Schnebli (ed.), 1976, John Wiley & Sons  | <input type="checkbox"/> |
|          | 33 | MARSTON, The Purification of Eukaryotic Polypeptides Synthesized in Escherichia coli, pages 1-12, Biochemical Journal, Vol. 240, 1986, Great Britain   | <input type="checkbox"/> |
|          | 34 | MATSUURA ET AL, A Simple and Effective Solvent System for Elution of Gonadotropins from concanavalin A Affinity Chromatography, pages 402-410, Analytical Biochemistry, Vol. 106, 1980                           | <input type="checkbox"/> |
|          | 35 | McKENKIE ET AL, The Molecular Weight and Stability of concanavalin A, pages 283-293, Biochimica et Biophysica Acta, Vol. 263, 1972   | <input type="checkbox"/> |
|          | 36 | MIN ET AL, In Vitro Splicing of concanavalin A is Catalyzed by Asparaginyl Endopeptidase, pages 502-504, Nature Structural Biology, Vol. 1, No. 8, August 1994   | <input type="checkbox"/> |
|          | 37 | MITRAKI ET AL, Protein Folding Intermediates and Inclusion Body Formation, pages 690-697, Bio/Technology, Vol. 7, July 1989  | <input type="checkbox"/> |
| ↓        | 38 | NEIDHARDT, Chemical Composition of Escherichia coli, pages 3-6, Escherichia coli and Salmonella Typhimurium: Cellular and Molecular Biology, Volume 1, 1987, American Society for Microbiology, Washington, D.C. | <input type="checkbox"/> |

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| /S.M.N./ | 39 | WEST ET AL, Lectin Affinity Chromatography, pages 177-185, Methods in Molecular Biology, Vol. 50: Protein Purification Protocols, 1996, Walker (ed.), Humana Press, Totowa, New Jersey   | <input type="checkbox"/> |
|          | 40 | NORTHCOTE, Qualitative, Quantitative and Preparative Electrophoretic Separations of Neutral Polysaccharides, pages 49-53, Methods in Carbohydrate Chemistry, Volume V: General Polysaccharides, 1965, Academic Press   | <input type="checkbox"/> |
|          | 41 | PICKUP ET AL, In Vivo Glucose Sensing for Diabetes Management: Progress towards Non-Invasive Monitoring, pages 1-4, BMJ, Vol. 319, 1999  | <input type="checkbox"/> |
|          | 42 | PRASTHOFER ET AL, Design, Expression and Crystallization of Recombinant Lectin from the Garden Pea ( <i>Pisum sativum</i> ), pages 6793-6796, The Journal of Biological Chemistry, Vol. 264, No. 12, 1989, The American Society for Biochemistry and Molecular Biology, Inc. | <input type="checkbox"/> |
|          | 43 | PREISS ET AL, Physiology, Biochemistry and Genetics of Bacterial Glycogen Synthesis, pages 183-238, Advances in Microbial Physiology, Vol. 30, 1989, Rose and Tempest (ed.), Academic Press  | <input type="checkbox"/> |
|          | 44 | SAMBROOK ET AL, Molecular Cloning: A Laboratory Manual, pages 6.6-6.7, Second Edition, 1989, Cold Spring Harbor Laboratory Press   | <input type="checkbox"/> |
|          | 45 | STRYER, Biochemistry, Chapter 23: Glycogen Metabolism, page 581, 1995, W.H. Freeman and Company, New York  | <input type="checkbox"/> |
|          | 46 | STUBBS ET AL, Production of Pea Lectin in <i>Escherichia coli</i> , pages 6141-6144, The Journal of Biological Chemistry, Vol. 261, No. 14, May 1986, The American Society of Biological Chemists, Inc.  | <input type="checkbox"/> |
|          | 47 | SUMNER ET AL, The Identification of the Hemagglutinin of the Jack Bean with concanavalin A, pages 227-237, Journal of Bacteriology, Vol. 32, No. 2, 1936   | <input type="checkbox"/> |
|          | 48 | SVENSSON ET AL, The Effect of Borate on Polysaccharide-Protein and Antigen-Antibody Reactions and Its Use for the Purification and Fractionation of Crossreacting Antibodies, pages 415-422, Immunochemistry, Vol. 7, 1970, Pergamon Press, Great Britain                    | <input type="checkbox"/> |
| ↓        | 49 | THATCHER ET AL, Protein Folding in Biotechnology, pages 229-261, Mechanisms of Protein Folding, Pain (ed.), 1994, Oxford University Press, New York  | <input type="checkbox"/> |

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| /S.M.N./ | 50 | van EIJSSEN ET AL., Mutational Analysis of Pea Lectin. Substitution of Asn125 for Asp in the Monosaccharide-Binding Site Eliminates Mannose/Glucose-Binding Activity, pages 1049-1058, Plant Molecular Biology, Vol. 20, 1992, Kluwer Academic Publishers, Belgium | <input type="checkbox"/> |
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**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

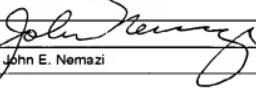
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That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.  
 Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.  
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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

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| Signature  |  | Date (YYYY-MM-DD)   | 2007-07-03 |
| Name/Print | John E. Nemazi  | Registration Number | 30,876     |

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